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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,352	08/27/2003	Takayuki Ichihara	1021.43087X00	3428
20457	7590 03/23/2005		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP			TZENG, FRED	
1300 NORTH SEVENTEENTH STREET SUITE 1800			ART UNIT	PAPER NUMBER
ARLINGTO	N, VA 22209-3873	2651		
			DATE MAILED: 03/23/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			11/11				
	Application No.	Applicant(s)	- Mr.				
	10/648,352	ICHIHARA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Fred Tzeng	2651					
The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence address	,				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ly within the statutory minimum of t will apply and will expire SIX (6) M e, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this communicat ABANDONED (35 U.S.C. § 133).	ion.				
Status							
1) Responsive to communication(s) filed on 27 A	Responsive to communication(s) filed on 27 August 2003.						
,	, —						
closed in accordance with the practice under I	Ex parte Quayle, 1935 C	S.D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6,8-10 and 12</u> is/are rejected.							
	Claim(s) 7,11 and 13-16 is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>27 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The path of declaration is objected to by the E.	xammer. Note the attach	led Office Action of form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No en received in this National Stage					
	·		-				
Adda shires and (s)							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Intende	w Summary (PTO-413)					
Paper No(s)/Mail Date							
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>8/27/2003</u>.) 5)	of Informal Patent Application (PTO-152)					
S. Patent and Trademark Office							

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DETAILED ACTION

1. Claims 1-16 are presented for examination.

Priority

- 2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 3. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Specification

- 4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 6. The following title is suggested: <u>Magnetic Recording Apparatus and Method of</u>
 Writing Data in Low Temperature.

Claim Rejections - 35 USC § 102

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7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1-6, 8-10, 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Liang et al (USPN 6,574,061), hereafter as Liang.

RE claims 1-3 and 8-10, Liang discloses a magnetic recording apparatus (see column 3 line 35; i.e., the disc drive 100) comprising: a magnetic head including an excitation coil (see column 3 line 67 and figure 3; the head 110 including an excitation coil 10); a magnetic recording medium (see column 3 lines 39-41; the disc pack 106); a terminal for receiving a recording command and recording data from a host device (see column 3 lines 56-64; the circuit board 130 is the terminal); and a head amplifier (see column 4 lines 1-10; the preamplifier 300); wherein the head amplifier, upon reception of the recording data, causes an electric current to flow in the excitation coil prior to the start of recording of the data using the magnetic head (see column 4 lines 1-23).

RE claims 4 and 5, Liang discloses a temperature measuring means, wherein the head amplifier, if the temperature measured by the temperature measuring means is below a predetermined value, causes a current to flow in the excitation coil in the magnetic head after the reception of the recording data and prior to the start of

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recording of the data by the magnetic head (see column 2 lines 7-12,28-30 and figure 3 thermistor 318 and figure 6 step 222).

RE claims 6 and 12, Liang discloses that the intensity of the recording current supplied from the head amplifier to the excitation coil is varied depending on the temperature measured by the temperature measuring means (see column 2 lines 10-12 or column 4 line 67 – column 5 line 2).

Allowable Subject Matter

9. Claims 7, 11, 13-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Iida (USPN 6,442,109) discloses an excitation coil in a magnetic head).
- 11. Any inquiry concerning this communication from the examiner should be directed to Fred Tzeng whose telephone number is 571-272-7565. The examiner can normally be reached on weekdays from 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 571-273-7565 for After Final communications.

12. Informal regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred F. Tzeng

March 19, 2005

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600